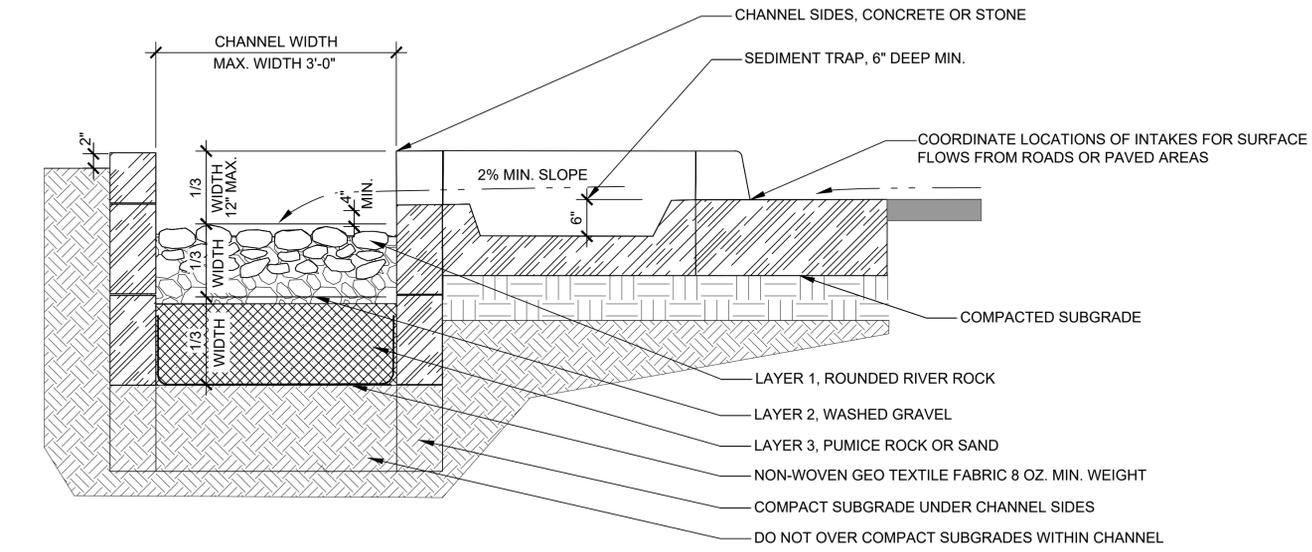
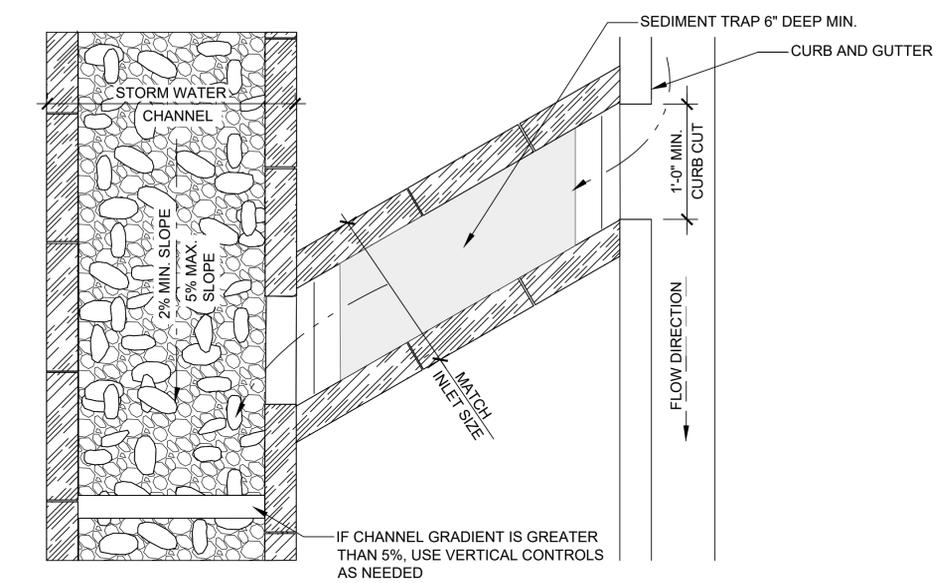


**GENERAL NOTES:**

- IF THIS SHEET IS NOT 24"x36" USE GRAPHIC SCALE ACCORDINGLY.



**CHANNEL SECTION**  
VIEWL C-XXXX  
1' 9" 6" 3" 0 1'  
1"=1'-0"



**CHANNEL PLAN**  
VIEWL C-XXXX  
1' 9" 6" 3" 0 1'  
1"=1'-0"

**NOTES FOR DESIGNER:**

( DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

**DESIGN LIMITATIONS:**

- STORM WATER CHANNELS ARE ABLE TO EFFECTIVELY HANDLE DRAINAGE AREAS LESS THAN 5 ACRES.
- EXISTING SUBSURFACE UTILITIES MAY LIMIT USE OF THIS METHOD.

**SITING CRITERIA:**

- STORM WATER CHANNELS ARE ABLE TO EFFECTIVELY HANDLE DRAINAGE AREAS LESS THAN 5 ACRES.
- SAFETY MEASURES FOR VEHICLES AND PEDESTRIANS MAY BE REQUIRED, E.G., RAILINGS, POSTS, ETC.

**DESIGN CRITERIA:**

- CHANNEL BOTTOM GRADIENT SHOULD BE 5% OR LESS; VERTICAL CONTROLS SHOULD BE PLACED IN CHANNEL IF GRADIENT IS STEEPER. TOP OF VERTICAL CONTROLS SHOULD BE 1" LOWER THAN TOP OF LAYER 1.
- MULTIPLE CHANNEL INLETS CAN BE INCORPORATED ALONG THE LENGTH OF THE STORM WATER CHANNEL.
- A SEDIMENT TRAP (6" DEEP) SHALL BE INCLUDED AT EACH STORM WATER CHANNEL INLET. THE OUTLET SEDIMENT TRAP SHALL BE LOWER IN ELEVATION THAN THE INLET.
- PROVIDE VELOCITY AND EROSION CONTROL AT CHANNEL OUTFALL.
- CHANNEL SIDE MATERIAL OPTIONS:  
STONE  
CONCRETE
- IF CONCRETE IS UTILIZED IT SHALL CONFORM WITH LANL REQUIREMENTS, IF STONE IS UTILIZED IT SHALL BE SIZED BASED ON CHANNEL VELOCITIES AND VERTICAL/HORIZONTAL SHEER CONSIDERATIONS.

**CONSTRUCTION CRITERIA:**

- SOILS UNDER CHANNEL BOTTOM SHOULD NOT BE OVER COMPACTED TO PROMOTE INFILTRATION.
- IDENTIFY APPROPRIATE MATERIALS AND HOLD POINTS FOR INSPECTION AND APPROVAL.
- PROVIDE ACCESS FOR MAINTENANCE.

NO	DATE	CLASS REV	DC	DESCRIPTION	DWN	DSGN	CHKD	SUB	APP
0				INITIAL ISSUE FOR [DCF-XYZ]					

**ENGINEERING STANDARDS**

**CIVIL  
LOW IMPACT DEVELOPMENT  
STORM WATER CHANNEL**

DRAWN	E. ATENCIO
DESIGN	T. LEMKE
CHECKED	S. RAEI
DATE	02-10-20

TA-XX BLDG XXXX

SUBMITTED DISCIPLINE POC: JOHN O'BRIEN APPROVED FOR RELEASE STANDARDS MANAGER: TOBIN ORUCH

SHEET **1**

**5** OF **16**

D.C.: UNCLASSIFIED REVIEWER: DONALD YARDMAN DATE: PROJECT ID DRAWING NO: **CHAPTER 3 ST-G20GEN-1.5** REV **0**

00% REVIEW  
NOT FOR CONSTRUCTION